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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/572,739

03/21/2006

Taichi Majima

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6912

31780

7590

09/30/2008

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EXAMINER

MEHRPOUR, NAGHMEH

ART UNIT

PAPER NUMBER

2617

MAIL DATE

DELIVERY MODE

09/30/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/572,739	Applicant(s) MAJIMA, TAICHI	
	Examiner MELODY MEHRPOUR	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement filed reference listed in the information Disclosure Submitted on 03/21/06, 6/26/06 have been considered by the examiner (see attached PTO-1449

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. **Claims 1-15**, are rejected under 35 U.S.C. 102(e) as being anticipated by

SANDERFORD JR. et al. (US publication 2007/0071114 A1).

Regarding claims 1, 11-15, SANDERFORD teaches a mobile communication system/method in which a base station and mobile stations perform communication by a slotted-ALOHA method, the system being characterized in that a predetermined offset time is set between downstream communication frames from the base station to

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each mobile station and upstream communication frames from the mobile station to the base station (0122, 0130);

the base station transmits a transmission permission signal for permitting transmission of one frame of data when a particular one of the upstream communication frames is available, determines whether or not continuous transmission of subsequent data over a plurality of frames should be permitted if the subsequent data exists subsequently to the one frame of data received through the particular frame from one of the mobile stations, and transmits a continuous transmission permission signal for permission of the continuous transmission when the continuous transmission is permitted (0122); and

if each mobile station has data to be transmitted, it transmits one frame of data in response to the transmission permission signal from the base station, and transmits the subsequent data through a plurality of consecutive frames in the upstream communication frames when receiving the continuous transmission permission signal with respect to the transmitted one frame of data (0130, 0140, 0196).

Regarding claims 2-3, 8, SANDERFORD teaches a mobile communication system according to claim 1, characterized in that the upstream communication frames from the mobile station to the base station are delayed from the downstream communication frames from the base station to the mobile station by a predetermined time period longer than one frame (0203, 0296, 0368);

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the base station transmits the transmission permission signal through the frame in the downstream communication frames corresponding to the first frame in the upstream communication frames if the first frame in the upstream communication frames is available (0196, 0294, 0250);

if the mobile station has data to be transmitted, it transmits the one frame of data through the first frame in the upstream communication frames when receiving the transmission permission signal through the frame corresponding to the first frame; determination is made as to whether or not continuous transmission of subsequent data over a plurality of frames should be permitted if the subsequent data exists subsequently to the one frame of data received through the particular frame from the mobile station, and the continuous transmission permission signal is transmitted through the second frame a predetermined number of frames after the frame corresponding to the first frame when the continuous transmission is permitted (0196, 0197);
and

when the mobile station receives the continuous transmission permission signal through the second frame in the downstream communication frames, it transmits the subsequent data through a plurality of consecutive frames in the upstream communication frames the leading one of which corresponds to the second frame (0196, 0211).

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Regarding claims 4-5, SANDERFORD teaches a mobile communication system according to claim 1, characterized in that the mobile station has a half-duplex-type configuration capable of selectively executing transmission processing and reception processing (0196); and

when the mobile station receives the transmission permission signal in a receiving mode, and if data to be transmitted exists, it transmits the one frame of data in the upstream communication frame by selecting a transmitting mode in place of the receiving mode, thereafter receives the downstream communication frame by selecting the receiving mode, and, when receiving the continuous transmission permission signal, continuously transmits the subsequent data through the plurality of frames in the upstream communication frames by selecting the transmitting mode (196, 0207, 0208, 0209, 0210).

Regarding claim 6, SANDERFORD teaches a mobile communication system according to claim 1, characterized in that the base station transmits mobile station identification information for identification of one of the mobile stations together with the continuous transmission permission signal; and the mobile station transmits the subsequent data when the mobile station identification information designates the mobile station (0217).

Regarding claim 7, SANDERFORD teaches a mobile communication system according to claim 1, characterized in that the mobile station transmits information for

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identification of the number of frames of the subsequent data together with the one frame of data (0217);

the base station transmits a transmission inhibition signal for inhibiting data transmission from the other mobile stations during transmission of the subsequent data by the mobile station on the basis of the number of frames of the subsequent data notified from the mobile station (0382); and the mobile station that has transmitted the one frame of data in the mobile stations continuously transmits the subsequent data according to the continuous transmission permission signal, the other mobile stations restraining themselves in response to the transmission inhibition signal from performing data transmission during transmission of the subsequent data(0368, 0369).

Regarding claims 9-10 SANDERFORD teaches a mobile communication system according to claim 1, characterized in that the base station transmits a continuous transmission non-permission signal when it does not permit continuous transmission of data subsequent to the one frame of data (0366, 0371); and each mobile station determines whether or not the base station has received the one frame of data transmitted from the mobile station, keeps on standby for transmission of the subsequent data after a lapse of a predetermined frame period if it determines that the base station has received the data, and if it has received the continuous transmission non-permission signal, and transmits the leading one frame of data in the

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subsequent data if it receives the transmission permission signal during standby (0130, 0143, 0146, 0148, 0162, 0174).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Friedrich (US Publication 2005/0242927 A1) disclose communication method in RFID or remote sensor systems

Tan (US Patent 6,920,121 B1) disclose quality packet radio for a general packet radio system

5. **Any responses to this action should be mailed to:**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naghmeh Mehrpour whose telephone number is 571-272-7913.

The examiner can normally be reached on 8:00- 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached (571) 272-7023.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Naghmeh Mehrpour/

Primary Examiner, Art Unit 2617

September 25, 2008